The invention concerns a method for producing a controlled-release pharmaceutical preparation with a particle-containing coating, the coating being derived from an aqueous dispersion of a film-forming water insoluble polymer and a water soluble pore-forming agent. By suspending, instead of dissolving the pore-forming agent, the resulting coating will contain particles of the poreformers with a predetermined size that creates, when disintegrated or dissolved in the body fluid, canals or a network of pores through the polymer film. Due to this network, the film will get a good mechanical stability and are left intact after the release of the drug.